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1977 Author and Article Index
The 1978 Conference Calendar

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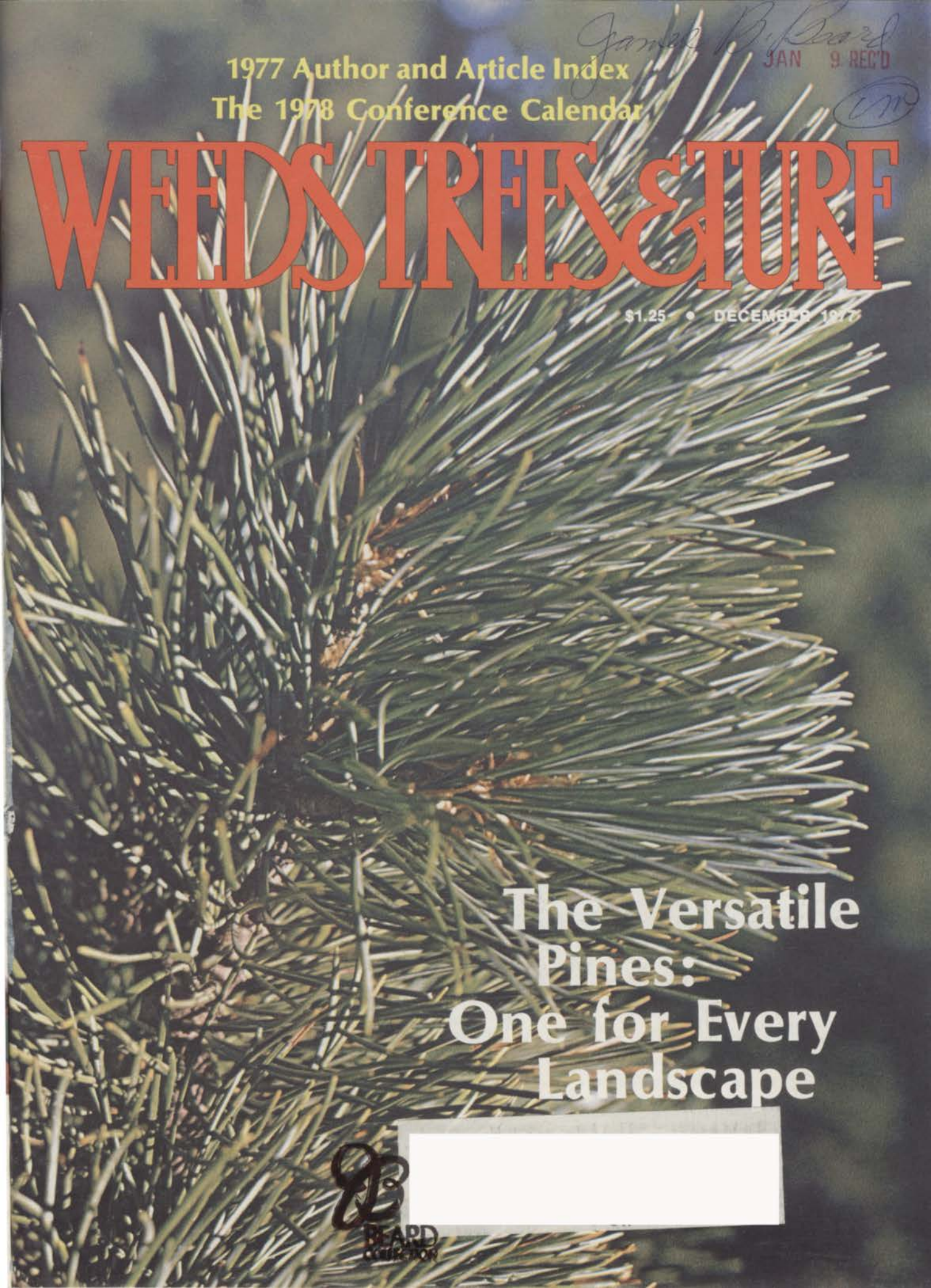

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DECEMBER 1977, Vol. 16, No. 12

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Pines are often overlooked as effective elements of a landscape. Dow Gardens Horticulturalist Douglas Chapman describes the wide variety of midwest pines.

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Single Copy Price: $1.25 for current and all back issues. Foreign $1.50. Subscription Rates: WEEDS TREES AND TURF is mailed free, within the U.S. and possessions and Canada, to qualified persons engaged in the vegetation care industry and related fields in controlled circulation categories. Non-qualified subscriptions in the U.S. and Canada are $10.00 per year; other countries, $12.00 per year. Controlled circulation postage paid at Cleveland, Ohio 44101.

Call for Questions

The next issue of Weeds Trees and Turf you receive will have a new look. Along with this new look is a new purpose, to answer your questions about any industrial problem. Obviously, to provide answers we need questions, your questions.

We are currently making arrangements to have experts answer your questions as they arrive. Eventually, these experts will become an industry board of advisors under the sponsorship of this magazine.

We will be able to answer questions on business practices, personnel problems, and technical matters relating to any form of vegetation management.

So please, send your question today to Editor, Weeds Trees and Turf Magazine, 9800 Detroit Ave., Cleveland, Oh. 44102. To make this work as a free yet valuable resource to you, we must have a steady flow of questions.

New Directory of 1978 Trade Events

For the first time we are publishing a directory of national and multi-state trade shows for the coming year. We will publish this directory annually in the December issue. Since this is a first stab and we are under some time restraints right now, we may have overlooked some events. Please bring any events not included to our attention so that we may include them next December.

In constructing the directory we discovered that some state and regional shows are as large as some national shows. We will endeavor to carry more of these shows in 1978.

In the process of making the directory, we had the pleasure of talking to many association executives across the nation. We'd like to thank them for their cooperation under such short notice. My impression, Ron's too, was that green industry associations are very professional and dedicated to the advancement of their respective industries. There is also a great deal of overlapping interest.

Since a spirit of cooperation does exist, it would appear that much could be gained on a national scale by an affiliation of various associations. Specialization is beneficial certainly, for example with golf course superintendents, but common interests in non-agricultural or non-crop sectors could be effectively combined into national programs.

Perhaps this magazine can help organize such efforts in the future. We'd like to know what your thoughts are on this matter. Write or call us anytime. Attention must be paid not to hurt the work of any regional or specialized association if such an affiliation becomes reality.

Bruce F. Shank

Bruce F. Shank, Editor

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Government News

Applicator certification plans have been approved for the Department of Defense, Iowa, and Texas. The DOD plan designates the Armed Forces Pest Control Board as the lead agency responsible for the program's development, implementation, and coordination.

The Texas plan was approved in spite of a legislative adjournment without meeting the proposed legislative contingencies. The Texas Department of Agriculture, however, proposed an alternative regulatory approach that met with the approval of the EPA Regional Administrator.

The Iowa plant was published in the Federal Register, along with a list of some amendments to the proposed plan. The EPA notice said that the amendments serve only to clarify and do not substantially alter the intent or operation of the Iowa program.

Section five experimental use permits issued included one to Elanco Products allowing use of 5,490 pounds of tebuthiuron to evaluate control of wood plants in non-crop area, such as railroad rights of way, utility rights of way, industrial sites, pipelines, and along highways.

A permit was issued to J. J. Mauget Co. allowing use of 90 pounds of 2-(2-ethoxyethoxy)ethyl-1-1-2-benzimidazole carbamate on 11,649 trees to control certain fungus diseases of ornamental trees. The permit expires Oct. 3, 1979.

A permit was also issued to Velsicol Chemical Corp. allowing use of approximately 6,305 pounds of 3-(5-(1, 1-dimethylethyl)-1,2,3-(thiadiazol-2-yl)-4-hydroxy-1-methyl-2-imidazolidinone and related compounds on rights of way, fencerows, industrial sites, wasteland, and similar non-cropland to evaluate control of certain annual and perennial weeds and grasses. The permit is effective until Aug. 26, 1978.

The EPA is planning to issue a notice of rebuttable presumption against registration (RPAR) of thiophanate-methyl, based on mutagenicity of the pesticides' major plant metabolite, methyl 2-benzimidazole carbamate (MBC) and on the conclusion that thiophanate-methyl pesticides registered for outdoor use "can reasonably be expected to result in significant local reductions of earthworm populations". The draft document requested comment on the relevance, impact and long-term significance of local earthworm population reductions.

Pennwalt was noted as the only registered producer of technical grade thiophanate-methyl in the U.S. and its only registered uses are on turf and ornamentals.

Healthy little beauty likes shade!

What a beauty little Glade Kentucky bluegrass has turned out to be! A fine, healthy specimen, Glade has a higher level of resistance to powdery mildew, and performs better than many other Kentucky bluegrasses in up to 60% shade as well as open sun. Glade, a Rutgers selection (nationally tested as P-29), has improved resistance to stripe smut and leaf rust. Midwestern and Northeastern university tests indicate that Glade has better than average resistance to Fusarium blight.

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Glade

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U.S. Plant Patent 3151

Industry News

GCSAA Conference To Draw Over 5000

More than 5000 people are expected to attend the Golf Course Superintendents Association's Conference and Trade Show in San Antonio, Texas, February 12-17, 1978. The 49th International Turfgrass Conference and Show will offer turfgrass managers a varied program of educational sessions, industry exhibits, a golf tournament, the GCSAA annual meeting and election of officers, and a golf course tour. The six-day event will take place in the 130,000 square foot San Antonio Convention Center.

Exhibit space was sold out three months before the conference is due to open. Some 52,000 square feet of space has been sold to 180 companies. Thirty-three new companies have joined the show so far.

The exhibit hall will be open Feb. 14 and 15 from 9 a.m. to 5 p.m., and Feb. 16 from 9 a.m. to 4 p.m. Opening day, Feb. 12, has traditionally been reserved for superintendents only to view the show, and the afternoon of Feb. 13 has been set aside for dealers to preview the show.

Seven educational sessions will feature 38 speakers from universities, industry, and GCSAA. Earl L. Butz will deliver the keynote speech, entitled "I Don't Want to Live in a No-Growth Society," at the opening session Monday morning, Feb. 13. Butz is now dean emeritus of agriculture at Purdue University.

Sessions on northern and southern turfgrass management, research, weather, and public golf-owners and operators are among those offered. Four seminars will be offered simultaneously on Feb. 11 and 12. They will cover the principles of landscape design, chemical and fertilizer usage; leadership, motivation, and employee relations.

The annual GCSAA membership meeting and election of officers will take place Wednesday afternoon in the Convention Center.

The 39th GCSAA National Golf Tournament will be played at three Corpus Christi, Texas golf courses on Feb. 9 and 10, and a victory banquet is planned for Friday night to honor winners at the Corpus Christi Country Club.

A tour of four area golf courses on Friday, Feb. 17, will take some 500 superintendents to Fort Sam Houston Golf Course, Oak Hills Country Club, San Antonio Country Club and Willow Springs Golf Course.

More information about the conference and show can be obtained from GCSAA Headquarters, 1617 St. Andrews Drive, Lawrence, Kansas 66042.

AAN Presents Landscape Awards

Mrs. Jimmy Carter honored a number of commercial and industrial firms, institutions and municipalities at the recent Landscape Aware Program of The American Association of Nurserymen. It was the eighth time in its 24 year history that a First Lady has headed the ceremonies, and the fourth time they have been held at the White House.

Awards were presented to 17 outstanding environment landscaping projects. Another 24 projects were presented with Certificates of Merit.

Social Security Taxes May Rise Significantly

The U.S. House of Representatives has passed a bill that will significantly increase Social Security payroll taxes paid by both employee and employer. The next decade would see a rise from the present $965 per year to $2,982 per year, shared 50/50 by employee and employer.

The tax would rise, according to the House bill, from the present 5.85% on income up to $16,500 to 16.5% of $19,000 in the next two years. By 1986, the tax would be up to 7.1% of $40,000.

Legislation pending in the Senate would also raise the tax to 7.1% in 1986 with the employee paying a maximum $2,279 on income up to $32,100 and the employer paying a maximum of $5,325 on up to $75,000.

The Senate bill would also raise the earnings limit for recipients under 72 to $4,500 in '78 and $6,000 in '79. The House version would phase out the limit entirely by 1982 for all retirees between 65 and 72.

The Social Security system is presently paying 8.2% more than it is receiving.

Be Aware of Potential Nonpoint Pollution

Agricultural runoff, known legally as nonpoint source pollution, doesn't really seem to be a concern of most grounds managers. In fact, turf is one way to control runoff. However, with legislation the way it is, and some apparent confusion over what is law and what is not, it is wise to know about and avoid trouble.

Under section 208 of the 1972 Water Pollution Control Act, each state is required to maintain what is called a 208 planning process, whereby the state Water Pollution Control Agency sets standards for water pollution control in each area of the state. This is basically a water management plan and relies heavily on management practices in areas that are open to erosion. For example, the plan may call for certain kinds of cover to be planted. In an area that is already covered, such as a golf course, the plan might call for controlled use of fertilizers and pesticides, to avoid runoff into area streams and lakes.

The best thing to do, if you are unaware of the implication of any existing plan, is to contact the state Water Pollution Agency. It might also be possible that your extension service is aware of the plan and might be able to warn you of possible hazards.

The states were required to do this about two years ago after a court decision.

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Other International Inquiries: **Northrup, King & Co., Inc.**, Minneapolis, Minn. 55413

People on the Move

Billy Lee Harrison and **J. George Shoemaker** have been appointed as technical sales representatives in the agricultural chemicals division of ICI Americas, Inc. Located in Forrest City, Arkansas, Harrison is responsible for sales in that state. Shoemaker has sales responsibility for Montana; Minnesota, Wisconsin, Iowa, North Dakota, South Dakota, and northern Michigan. He is based in New Richmond, Wisconsin.

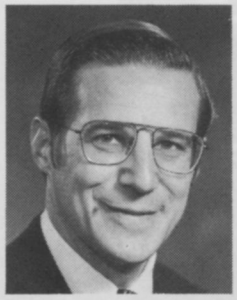
Howard L. Eckel, Jr., Vice President-Utility Services, has been elected to the board of directors of the Davey Tree Expert Company. He joined Davey Tree in 1963 as a sales representative and has served as regional manager of Utility Sales for its southeast region and as vice president — Atlantic Coast region. **Donald J. Shope** has been named sales manager — Tree Care Services of Davey Tree. He will be responsible for improving service, sales, and profits of the company's tree care service operations. Shope joined Davey Tree in 1955 and was most recently division manager for the company's mid-Atlantic division.

Velsicol Chemical Corporation has promoted **Tom L. Sawyer** to district manager of the Northwest Central District, Agricultural Business Group. He was formerly a sales representative for the corporation's agricultural group.

Joan Zeldes Bernstein has been named as general counsel of EPA. She was most recently a partner with the Washington firm of Baker, Hostetler, Frost and Towers where she specialized in anti-trust and trade regulation.

William T. McShea III has been appointed Commercial Department manager in the petro process department of Engelhard Industries. He will be responsible for development worldwide coordination of the Selectoxo® process, an Engelhard process for increasing the yield of ammonia producers. McShea has been senior marketing engineer with Engelhard's systems department in Union for three and one-half years.

Target Chemical Company has recently added **Fred L. Eckert** and **Nancy Coleson** to its headquarters staff. Eckert will serve as a licensed pest management coordinator. Coleson joins Target's staff as a pest management coordinator.



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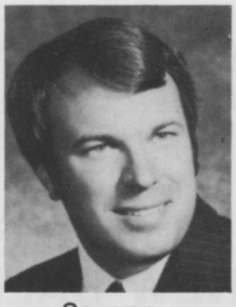

Sawyer

Shope

Ben F. Suter has been promoted to Western regional manager of U.S. Borax. He will be located in the Memphis, Tennessee, Selective Herbicides office.

The specialty chemicals division of ICI United States, Inc. has named **Thomas J. Kashi** as its technical correspondent for the southeast region. He is based at the regional office in Atlantic, Georgia. **N. Lee Randolph** has been appointed vice president and general manager of the newly established petrochemicals division of ICI Americas. The new unit will handle activities related directly to Corpus Christi Petrochemical Company and future petrochemicals developments. Randolph is based at corporate headquarters near Wilmington, Delaware.

Monsanto Agricultural Products Company has named **Bruce S. Buckland**, director, products — Avadex and Machete herbicides, Polaris plant growth regulator and parathion insecticide; and **G. David Malsbary**, director, products — Roundup herbicide.

Melnor Industries has appointed **Daniel R. Dawson** as Western regional sales manager. He will direct the activities of Melnor sales representatives in Texas, California, the Mountain States, and the Pacific Northwest. Dawson will also coordinate all field sales activities with the home office and oversee trade show activities in those areas.

Douglas Dorling, aquatic biologist, has been appointed to the aquatic pest management department of A-1 Services. A-1 has been treating lakes in southwest Washington for algae and weed control for the past four years. Dorling's last position was concerned with salmon growth research for the U.S. Department of Interior.

Dr. Tal DuVall has been named director of the University of Georgia Cooperative Extension Service. He has been assistant Extension director in charge of field operations since July, 1972. In his new position, DuVall will oversee Extension programs in agriculture, home economics, 4-H and community development and will direct a staff of some 500 county Extension agents and 200 subject matter specialists. He holds a masters degree in Extension education and a doctorate in public administration.

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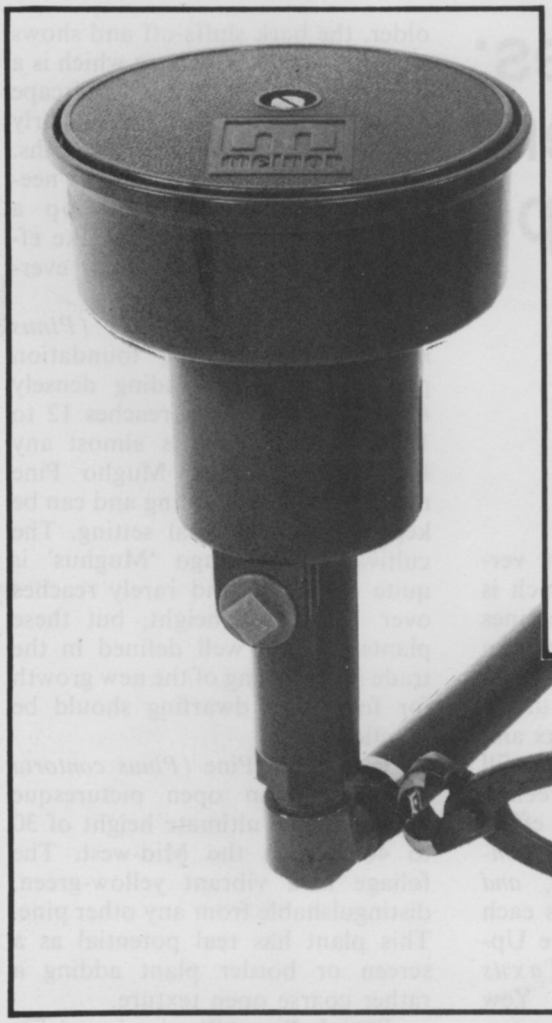

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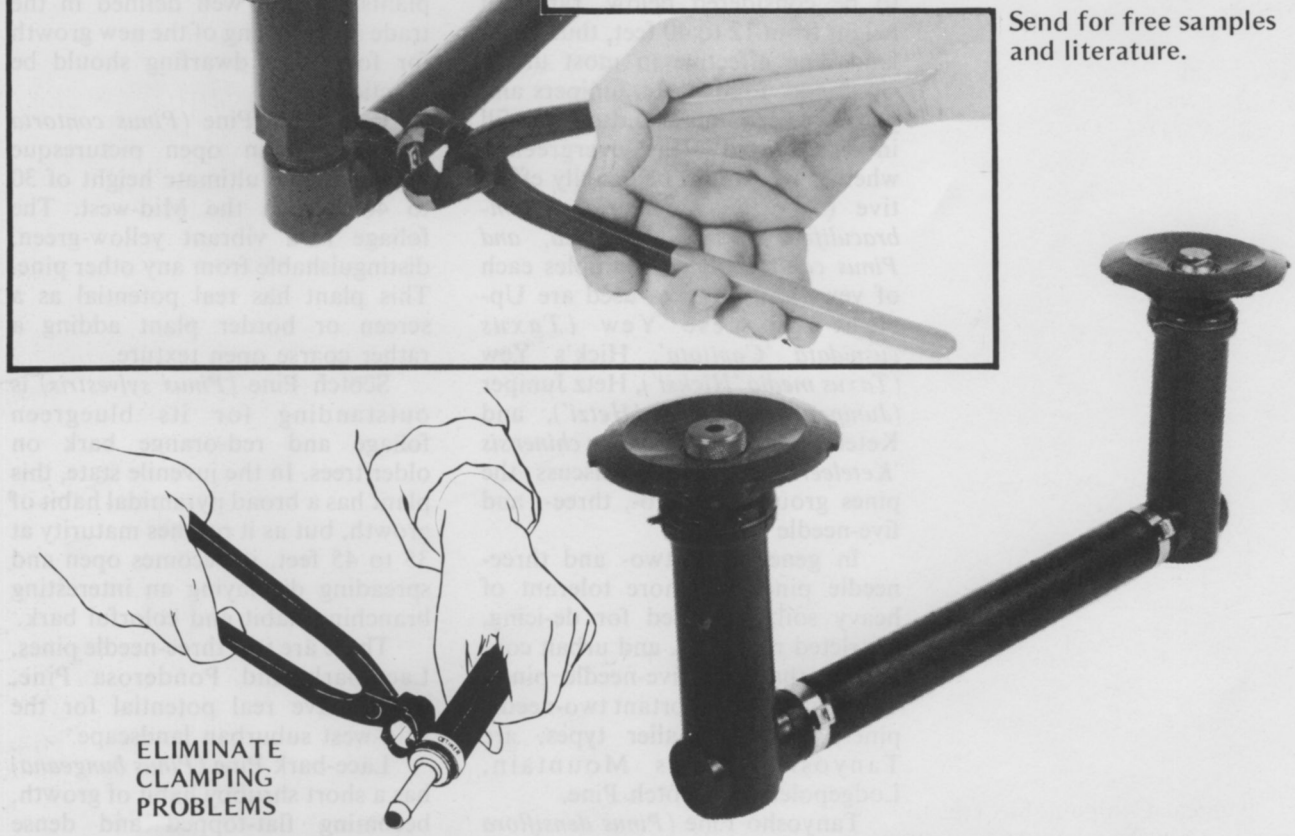

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The Versatile Pines: One for Every Landscape

by Douglas J. Chapman
Dow Gardens Horticulturalist
Midland, Michigan

Pinus is one of the most versatile genera of plants which is least understood or used. The pines to be considered below, range in height from 12 to 40 feet, thus being landscape effective in most urban situations. Frequently, junipers and yews are used in the landscape to fill in as "narrow-leaf evergreens" where pines would be equally effective (e.g. *Pinus densiflora 'Umbraculifera', Pinus bungeana, and Pinus cambra).* Two examples each of yews and junipers used are Upright Japanese Yew *(Taxus cuspidata 'Capitata'*, Hick's Yew *(Taxus media 'Hicksi')*, Hetz Juniper *(Juniperus chinensis 'Hetzi')*, and Keteleer Juniper *(Juniperus chinensis 'Keteleeri').* We shall discuss the pines grouped as two-, three-, and five-needle pines.

In general the two- and three-needle pines are more tolerant of heavy soil, salt used for de-icing, restricted root sites, and urban conditions than are five-needle pines. The four most important two-needle pines, in the smaller types, are Tanyosho, Swiss Mountain, Lodgepole, and Scotch Pine.

Tanyosho Pine *(Pinus densiflora 'Umbraculifera')* is a large shrub or small tree with dense branching. At maturity it reaches 25 to 35 feet in height with a round or umbrella-shaped crown. As this plant gets older, the bark sluffs-off and shows a brilliant reddish-orange which is a colorful addition to the landscape year-round, but most particularly welcome during the winter months. As the tree becomes older, the needles and branching develop a somewhat layered or cloud-like effect which is unique among evergreens.

Swiss Mountain Pine *(Pinus mugo)* is an exciting foundation plant. This low-spreading densely foliated plant, which reaches 12 to 18 feet in height, fits almost any landscape situation. Mugho Pine responds well to pruning and can be kept in a low formal setting. The cultivar Pinus mugo 'Mughus' is quite spreading and rarely reaches over 10 feet in height, but these plants are not well defined in the trade and pruning of the new growth for form and dwarfing should be practiced.

Lodgepole Pine *(Pinus contorta latifolia)* is an open picturesque plant with an ultimate height of 30 to 40 feet in the Mid-west. The foliage is a vibrant yellow-green, distinguishable from any other pine. This plant has real potential as a screen or border plant adding a rather coarse open texture.

Scotch Pine *(Pinus sylvestris)* is outstanding for its bluegreen foliage and red-orange bark on older trees. In the juvenile state, this plant has a broad pyramidal habit of growth, but as it reaches maturity at 35 to 45 feet, it becomes open and spreading displaying an interesting branching habit and colorful bark.

There are two three-needle pines, Lace-bark and Ponderosa Pine, which have real potential for the Mid-west suburban landscape.

Lace-bark Pine *(Pinus bungeana)* has a short shrubby habit of growth, becoming flat-topped and dense with an ultimate height of 20 to 30 feet. This plant is well adapted to a high water table — well drained — alkaline soils, making it particularly useful on landscapes which are

The Swiss Stone Pine is a five-needle variety useful as a screen or foundation plant for large buildings and homes.

The Bristle-cone pine branches grow in a pendulous manner making it a good specimen plant.

Versatile Pines

regularly irrigated with "alkaline water." The bark exfoliates exposing patches of red, green, and white providing additional interest to winter landscapes. The plant is dense enough with a unique green foliage, making it an excellent screen or specimen plant.

Ponderosa Pine *(Pinus ponderosa)* ultimately reaches 50 feet in height in the Mid-west. This narrow conical crowned plant becomes quite flat-topped at maturity but is a real addition to coarse textured pines while showing resistance to many of our environmental problems. The cinnamon bark has deep fissures adding to the rugged coarse landscape appearance making it particularly effective in border plantings or as a specimen plant.

The Limber Pine is a broad, tall pine useful in medium to large residential lots.

Five-needle pines, such as Bristle-cone, Swiss Stone, Limber, and Japanese White Pine, have a fine texture, in general, requiring well-drained soils, not exposed to highway salts.

Bristle-cone Pine *(Pinus aristata)* is a small tree ranging from 12 to 18 feet in height with an irregular picturesque habit of growth. The short bluish-green needles become dotted with a white resin exudate. This small tree is an outstanding specimen or foundation plant. Its short new growth (candles) grows in every direction from quite vertical to extremely pendulous, adding to the unique growth habit of this plant.

Swiss Stone Pine *(Pinus cembra)* has a very dense conical, some-what formal, habit of growth reaching 30 feet in height. The dark green to bluish-green needles give a medium texture making this plant effective as a specimen, screen, or foundation plant for large buildings and homes. This plant not only grows vigorously in well-drained soils, but seems quite tolerant to many of our somewhat heavy urban soil conditions.

Limber Pine *(Pinus flexilis)* has a broad pyramidal habit of growth when young becoming quite open, reaching 30 to 40 feet at maturity. The glaucous bluish-green needles often are twisted, giving a "fox-tail" appearance. This is an exciting accent or specimen plant which is perfectly hardy and would fit into the medium to large home lot situation.

Japanase White Pine *(Pinus parvivlora)* has a fine dense texture during the juvenile period. It has a broad pyramidal habit of growth becoming flat-topped, layered, and picturesque at maturity. The mature height in the Mid-west is 30 to 40 feet. The needles are yellowish-green to pale green being smaller than White Pine providing an otherwise unobtainable texture to the landscape with the small needles and distinct layering of branches.

The above-mentioned pines are a needed addition to Mid-west landscapes. As more plantsmen, nurserymen, and homeowners recognize their value, they should become more available in the nursery trade.

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Directory of 1978 Green Industry Shows

ARBORIST

American Society of Consulting Arborists, 12 Lakeview Ave., Miltown, NJ 08850, 201-821-8948. 11th Annual Meeting, **Feb. 16-18,** Sarasota Hyatt House, Sarasota, Fla.

International Society of Arboriculture, 3 Lincoln Square, Box 71, Urbana, Il. 61801, 217-328-2032. Annual Meeting, **Aug. 13-17,** Sheraton Centre Hotel, Toronto, Ontario.

National Arborist Association, Inc., 3537 Stratford Rd., Wantagh, NY 11793, 516-221-3082. NAA Annual Meeting, **Feb. 19-23,** Sarasota Hyatt House, Sarasota, Fla.

CEMETERIES

American Cemetery Association, 250 E. Broad Street, Columbus, Ohio, 43212. 614-221-6829. 2nd International Conference, **Apr. 25-28,** Wien Hilton, Vienna, Austria. ACA/NAC Joint Convention and Trade Show, **Oct. 11-14,** Hyatt Regency, Chicago, Ill.

National Association of Cemeteries, 1911 N. Fort Myers Dr., Arlington, Va., 22209. 703-525-8774. ACA/NAC Joint Convention and Trade Show, **Oct. 11-14,** Hyatt Regency, Chicago, Ill.

FERTILIZER

Fertilizer Institute, 1015 18th St. NW, Washington, DC 20001, 202-466-2700. Fertilizer Institute Annual Meeting, **Feb. 5-7,** Regency Hyatt, Chicago, Il. FI/TVA Trade Fair, **Aug. 15-17,** St. Louis Convention Center, St. Louis, Mo. World Fertilizer Conference, **Sept. 13-16,** St. Francis Hotel, San Francisco.

National Agricultural Chemicals Association, 1155 15th St. NW, Washington, D.C. 20001, 202-296-1585. Annual Meeting, **Sept. 24-27,** Greenbriar, White Sulphur Springs, W. VA.

National Fertilizer Solutions Associations, 1701 W. Detwiler Dr., Peoria, Ill. 61614, 309-691-2870. 23rd Annual Convention & Chemical/Equipment Exhibition, Dallas Convention Center, **Nov. 28-Dec. 1,** Dallas, Texas.

National Limestone Institute, Inc., 702 H St. NW, Washington, DC 20001, 703-273-8517. Annual Convention, **Feb. 5-8,** Capitol Hilton, Washington, D.C.

GOLF COURSE

American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, Il., 60601, 312-372-7090. Annual Meeting, **Feb. 26-Mar. 3,** Carefree Inn, Phoenix, Az.

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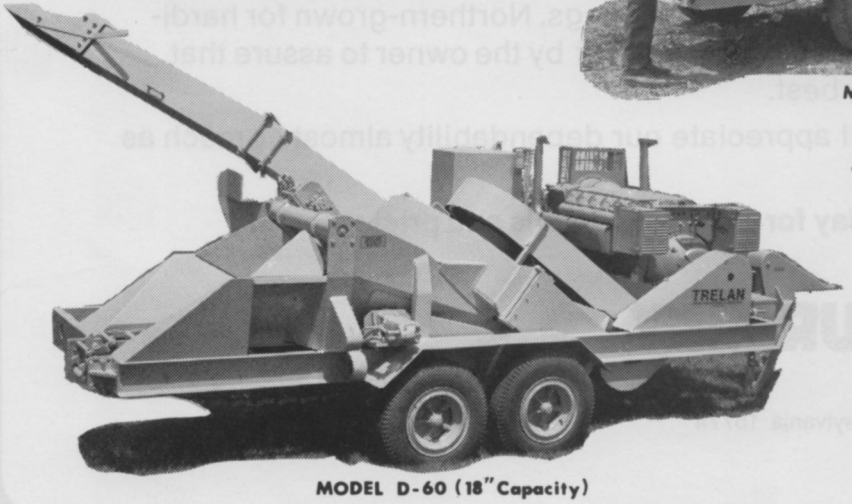

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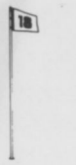
- ☐  Standard Flags & Poles
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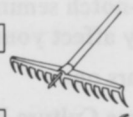
- ☐  Standard Rakes
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Canadian Superintendents Association, 29th Annual Canadian Turfgrass Show, **Mar. 6-8,** Hotel Toronto, Toronto, Ontario.

Golf Course Builders of America, Feb. 15, during GCSAA Show, San Antonio Convention Center, San Antonio, Tx.

Golf Course Superintendents Association of America, 1617 St. Andrews St., Lawrence, Ks. 66044, 913-841-2240. 49th International Turfgrass Conference and Show, **Feb. 12-17,** San Antonio Convention Center, San Antonio, Tx.

National Golf Foundation, Inc., 200 Castlewood Dr., N. Palm Beach, Fl. 33408, 305-844-2500. Spring Meeting, **April 30-May 3,** Key Biscayne, Fl. Fall Meeting, **Oct. 15-18,** Scottsdale Registry, Scottsdale, Az.

United States Golf Association, Green Section, Annual Conference on Golf Course Management, **Jan. 27,** Mark Hopkins Hotel, San Francisco, Ca.

HORTICULTURE

American Assoc. of Botanical Gardens and Arboreta, Horticultural Dept., New Mexico State Univ., Box 3530, Las Cruces, NM. Annual Meeting, **May 28-31,** Royal Botanic Garden, Hamilton, Ontario.

American Horticultural Society, Mt. Vernon, Va. 22121, 703-768-5700. **April 9-12,** AHS Spring Symposium, Mills Hyatt House, Charleston, S.C. **October 6-9,** AHS Annual Congress, Opryland Hotel, Nashville, Tenn.

American Society for Horticultural Sciences, Mt. Vernon, Va. 22121, 703-768-0700. ASHA 75th Anniversary Meeting, **July 15-20,** Sheraton-Boston Hotel, Boston, Mass. gen. chrm.: Dr. L. Peirce, Dept. Plant Science, Univ. of N.H., Durham, N.H. 03824, 603-862-1205.

International Plant Propagators Society, Western Region: 916-752-1904, Dr. Curtis J. Alley, Dept. of Viticulture & Oenology, University of California, Davis. Annual Meeting, **Oct.,** In At The Quay, Vancouver, Washington. Eastern Region: 317-749-2261, Dr. John A. Wott, Dept. of Horticulture, Purdue Univ., Lafayette, Ind. Annual Meeting, **Nov. 28-Dec. 1,** Toronto, Canada.

National Assoc. of Plant Patent Owners, Inc., 230 Southern Bldg., Washington, D.C. Annual Meeting, **Jan. 16,** Ohare Hyatt Regency, Chicago, Il.

LANDSCAPE

American Society of Landscape Architects, 1750 Old Meadow Rd., McLean, Va. 22101, 703-893-3140. Annual Meeting, **Nov. 12-16,** Homestead, Hot Springs, Va.

Associated Landscape Contractors of America, 1750 Old Meadow Rd., McLean, Va. 22101, 703-893-3140. Annual Meeting & Trade Exhibit, **Jan. 30-Feb. 3,** Hyatt House, Orlando, Fla.

National Landscape Association, 230 Southern Bldg., Washington, DC 202-737-4060. Landscape/Garden Center Mangement Clinic, **Feb. 5-8,** Galt House, Louisville, Kn.

NURSERY

American Assoc. of Nurserymen, Inc., 230 Southern Bldg., 15th & H St., NW, Washington, D.C. 20005, 202-737-4060. 103rd Annual Convention, **July 15-19,** Fairmount Hotel, New Orleans, La.

Southern Nurserymen's Assoc., Inc., 3813 Hillsboro Rd., Nashville, Tn. 37215, 615-383-5674.Annual Meeting, **July 30,** Atlanta, Hilton, Atlanta Civic Center, Atlanta, Ga.

Wholesale Nursery Growers of America, Inc., 230 Southern Bldg., 15th & H St., NW, Washington, D.C. 20005, 202-737-4060. Annual Meeting, **Jan. 15,** Ohare Hyatt Regency, Chicago, Ill.

PARKS AND RECREATION

National Institute on Park and Grounds Management, Box 1936, Appleton, Wi., 54911, 414-733-2301. Annual Meeting, **Oct. 29-Nov. 2,** Regency Inn, Denver, Colorado.

National Recreation and Parks Association, 1601 N. Kent St., Arlington, Va. 22209, 202-525-0606. 1978 Congress, **October 15-19,** Miami Beach Convention Center, Miami Beach, Fl. Six Regional Conferences:
Midwest Regional Conference, **Apr.**

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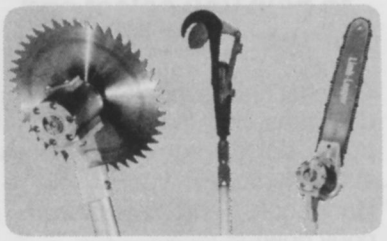

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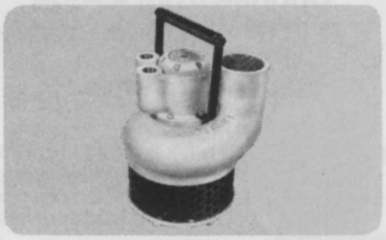

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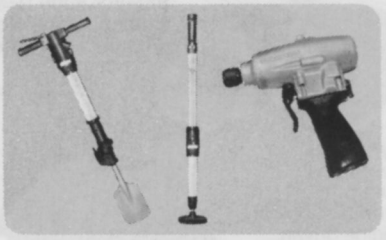

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New England Regional Conference, **Apr. 30-May 3,** Viking Hotel, Newport, R.I.
Pacific NW Regional Conference, **Apr. 8-12,** Yakima, Wa.
Pacific SW Regional Conference, **Feb. 25-28,** Fresno, California.
Southern Regional Conference, **Apr. 2-4,** Biloxi, Ms.
Southwest Regional Conference, **March 12-14,** Albuquerque, N.M.

SOD, SEED, & TURF

American Seed Trade Assoc., 1030 15th St., NW, Washington, DC, 20005, 202-223-4080. Annual Convention, **June 25-29,** Crown Center Hotel, Kansas City, Mo.

American Sod Producers Assoc., Association Bldg., 9th & Minnesota, Hastings, Nb, 68901, 402-463-5691. Midwinter Meeting, **Feb. 12-14,** Nassau Beach Hotel, Bahama Islands. Summer Convention & Field Days, **July 19-21,** Spokane Sheraton, Spokane, Washington.

Atlantic Seedsmen Assoc., 101 Park Ave. S., New York, NY, 10017, 212-685-5917. Annual Convention, **Nov. 1-3.**

Central Plains Turfgrass Foundation, Kansas State Univ., Manhattan, Kansas, 66506, 913-532-6011. Central Plains Turfgrass Conference, **Oct. 4-6,** KSU Union.

Lawn Institute, Rt. 4, Kimberdale, Marysville, Oh., 43040. Meets in conjunction with American Seed Trade Association.

Midwest Regional Turf Foundation, Dept. of Agronomy, Purdue Univ., W. Lafayette, In. 47907, 317-749-2891. Midwest Regional Turf Conference, **March 13-15,** Purdue Univ. Stewart Center, West Lafayette, In.

Southern Turfgrass Association, Inc., Miss. State Univ., State College, Ms., 39762, 601-325-6161. Southern Turfgrass Conference & Show, **Jan. 29-Feb. 1,** Broadwater Beach Hotel, Biloxi, Miss.

MISCELLANEOUS

American Society of Agronomy, 677 S. Segoe Rd., Madison, Wi., 53711, 608-274-1212. Annual Meeting, **Dec. 3-8,** Chicago Mariott & Hyatt Regency, Chicago, Il.

Aquatic Plant Management Society, Inc., P.O. Box 2237, Fort Meyers, Fl. 33902, 813-694-2174. 18th Annual Meeting, **July 9-12,** Jacksonville Hilton, Jacksonville, Fl.

The Irrigation Assoc., 13975 Connecticut Ave., Silver Spring, Md. 20906, 301-871-1200. Annual Irrigation Technical Conference, **Feb. 26-28,** Stouffers Cincinnati Towers, Cincinnati, Oh. Annual Convention, **Oct. 29-Nov. 1,** Canyon Hotel, Palm Springs, Ca.

Northeastern Weed Science Society, Univ. of Md. Coop Extension Service, College Pk., Md. 20742, 301-454-3622. 32nd Annual Meeting, **Jan. 4-6,** Americana Hotel, N.Y., N.Y.

Southern Weed Science Society, Dept. of Agronomy, 252 Funchess Hall, Auburn Univ., Auburn, Al. 36830. 31st Annual Meeting, **Jan. 17-19,** Braniff Place, New Orleans.

Weed Science Society of America, c/o F. W. Slife, Dept. of Agronomy, Univ. of Illinois, Urbana, Ill. 61801. Annual Meeting, **Feb. 8-10,** Dallas Hilton, Dallas, Tx.

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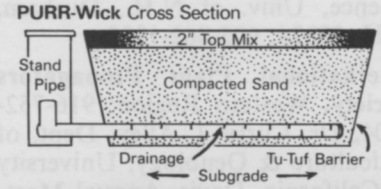

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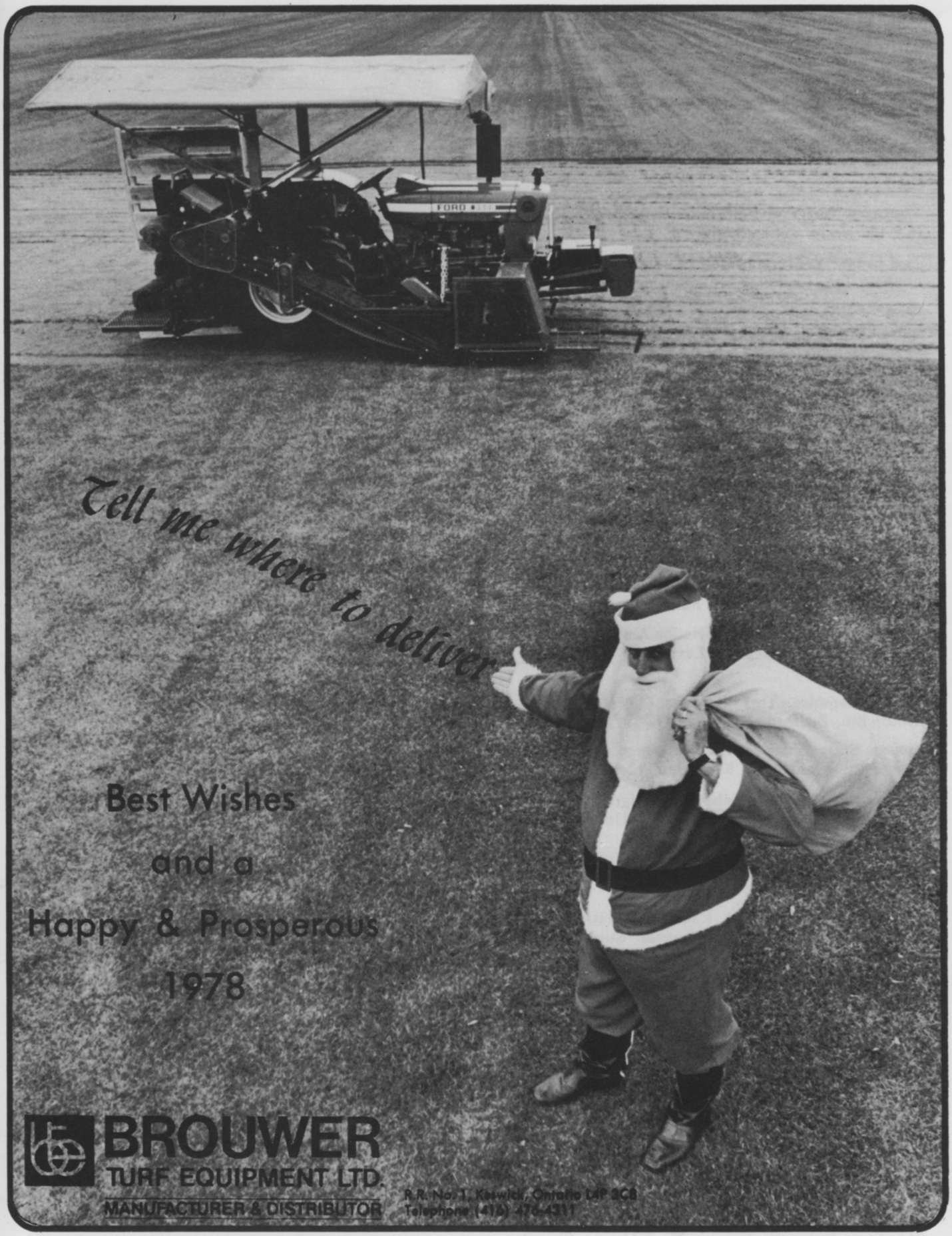
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Meeting Dates

International Society of Arboriculture, Indiana Chapter Annual Meeting, Stouffers Indianapolis, Indianapolis, Ind., Jan. 3-5.

Tennessee Turfgrass Conference, Music City Rodeway Inn, Nashville, Tenn., Jan. 3-4.

Turf Grass '78, Maryland Turf Grass Council, Sheraton Lanham Inn, Lanham, Md., Jan. 8-12.

Western Association of Nurserymen Trade Show and 88th Annual Meeting, Hilton Plaza Inn, Kansas City, Mo., Jan. 8-10.

Lawn and Turf School, Des Moines Area Community College, Ankeny, Iowa, Jan. 9-Feb. 3.

48th Annual Michigan Turfgrass Conference, Kellogg Center, Michigan State University, East Lansing, Mich., Jan. 19-21.

Southeastern Pennsylvania Turf School and Trade Show, Westover Country Club, Jeffersonville, Penna., Jan. 10-11.

Alumni Association of the Niagara Parks Commission School of Horticulture Annual Educational Conference, Park Motor Hotel, Niagara Falls, Ontario, Jan. 12-14.

Kentucky Nurserymen's Association Annual Meeting and Trade Show, Hyatt Regency Lexington, Lexington, Ky., Jan. 12-14.

New Hampshire Turf Seminar, Sheraton-Wayfarer Motor Inn, Bedford, N.H., Jan. 12-13.

Kansas State Shade Tree Conference, Kansas State University, Manhattan, Kan., Jan. 12-13.

The Pennsylvania State University Turfgrass Conference, J. Orvis Keller Conference Center, University Park, Penn., Jan. 16-19.

National Conference for Forestry Research, Ramada Inn, Rosslyn, Va., Jan. 17-19.

Kansas Recreation and Park Association Annual Conference, University of Kansas Student Union, Lawrence, Kan., Jan. 18-20.

Virginia Turfgrass Conference, Sheraton Motor Inn, Fredricksburg, Va., Jan. 18-19.

International Society of Arboriculture, Kentucky Chapter Annual Meeting, Executive West, Louisville, Ken., Jan. 19.

International Society of Arboriculture, Penn-Del Chapter Annual Meeting, Marriott Motor Hotel, Philadelphia, Penn., Jan. 19-20.

International Society of Arboriculture, Ohio Chapter Annual Meeting, Sheraton-Columbus, Columbus, Ohio, Jan. 22-26.

Ohio State University Nursery Short Course, Sheraton-Columbus Hotel, Columbus, Ohio, Jan. 22-26.

Illinois Commercial Arborist Association, University of Illinois Annual Arborist's Seminar, Sheraton-O'Hare Motor Hotel, Rosemont, Ill., Jan. 30-Feb. 2.

International Society of Arboriculture, Midwestern Chapter, Sheraton-O'Hare North Motor Hotel, Rosemont, Ill., Jan. 31-Feb. 2.

N.Y Turf & Landscaping/Long Island Gardners Association's Annual Turf & Landscape Conference, Tappan Zee Inn, Nyack, N.Y., Feb. 1.

International Society of Arboriculture, Rocky Mountain Chapter Annual Meeting, Denver Merchandise Mart, Denver, Colo., Feb. 6-7.

Wisconsin Arborist Association Annual Meeting, Green Bay, Wisc., Feb. 8-9.

Capital Area Turf School, Hershey Motor Lodge, Convention Center, Hershey, Penn., Feb. 21-22.

Western Pennsylvania Turf School/Trade Show, Howard Johnson Motor Lodge, Monroeville, Penn. Feb. 21-23.

International Society of Arboriculture, Southern Chapter Annual Meeting, Sheraton Motor Inn, Fredericksburg, Va., Feb. 26-28.

Iowa Turfgrass Conference, Hilton Inn, Des Moines, Iowa, Feb. 27-Mar. 1.

Northeastern Pennsylvania Turf School, Master Host Inn, Wilkes-Barre, Penn., Feb. 28.

29th Annual Canadian Turfgrass Show, Hotel Toronto, Toronto, Ontario, Mar. 5-8.

Wisconsin Landscape Federation 1978 Conference, Concourse Hotel, Madison, Wis., Mar. 5-6.

Eighth Vertebrate Pest Conference, Red Lion Motor Inn, Sacramento, Calif., Mar. 7-9.

Northcentral Pennsylvania Turf School, Holiday Inn, Bradford, Penn., Mar. 21.

Williamsburg Garden Syposium, Williamsburg, Va., April 2-5.

Turf-Landscape Institute, Anaheim Convention Center, Anaheim, Calif., April 19-20.

International Society of Arboriculture, Canada Chapter Annual Meeting, McDonald Hotel, Edmonton, Alberta, May 17-19.

Association of Physical Plant Administratiors of Universities and Colleges Convention, Radisson Hotel, Minneapolis, Minn., May 21-24.

International Society of Arboriculture, Western Chapter Annual Meeting, Sheraton-Portland, Portland, Ore., May 21-24.

Please send meetings dates three months ahead of time.

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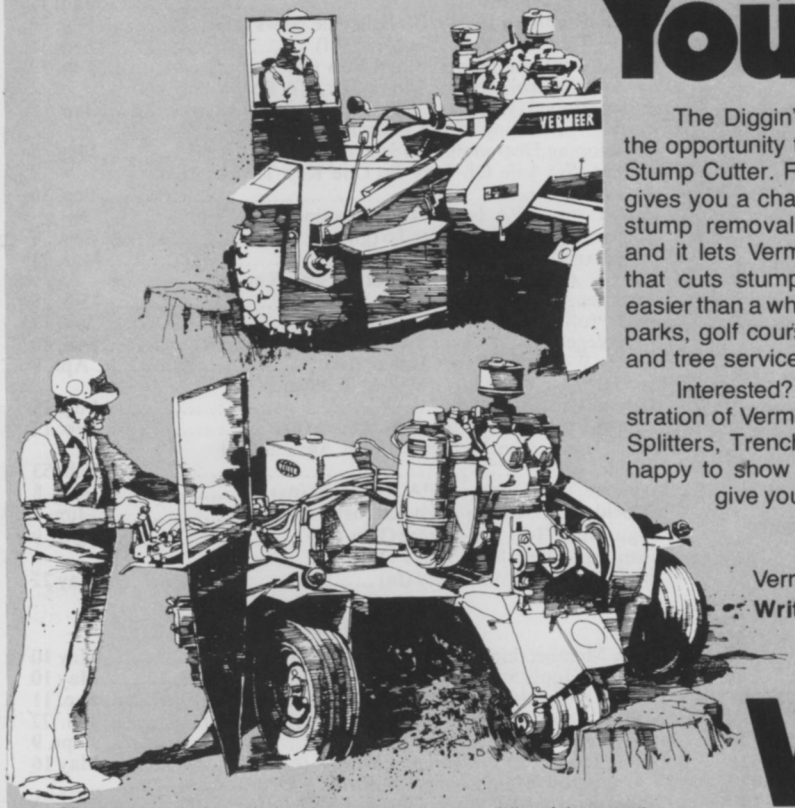

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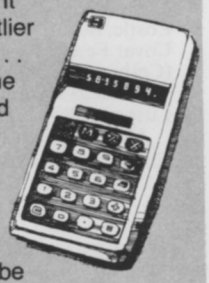

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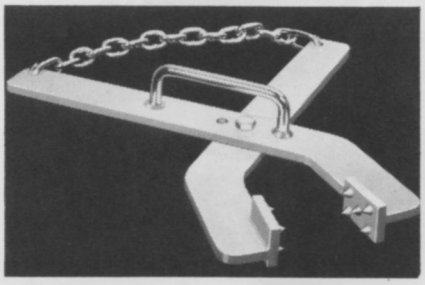


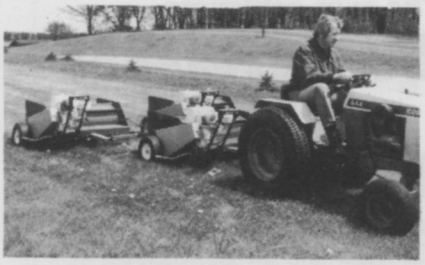
Pallet Puller Division, National Packaging Corporation has introduced their newly designed **Shark Pallet Puller** to remove loaded Pallets from trucks.

The new pallet puller is inserted into the center 2 x 4 (or 4 x 4, 4 x 6) of the pallet and attached by chain to the forklift truck on the street. When the forklift moves away from the truck, the sharp teeth of the puller grips firmly and the pallet moves to the rear of the truck.

One of the primary features of the Shark Pallet Puller is that it has a handle to assist in applying it to the middle rung of the pallet. It has the ability to pull a loaded pallet of six to ten thousand pounds positively because it has hardened steel jaws. It will work equally well with either soft or hard wood strings. It woll accommodate even a ½" wooden stringer, as the jaws will close completely.

The Shark is cadmium plated to make it more durable in normal situations.

Circle 701 on free information card



The Three Gang Mower has been added to the Lawn Genie line by Mathews Company. It mows, mulches, thatches and shreds up to 37 acres per day at 3 m.p.h. and 49 acres per day at 4 m.p.h. Like the 3 ft. Lawn Genie, the new machine features adjustable cutting heights and a drawbar for quick, easy attachment or removal from the hitch. The free swinging, reversible blades are easily removable for sharpening or reversing.

In addition, the 3 ft., 5 ft. and 6 ft. Lawn Genie models come equipped with large capacity hoppers which collect grass clippings, leaves, chopped hedge clippings, shredded weeds and other debris. The materials can be instantly mulched for compost, collected in the hopper and dumped in a pile or spread evenly on the ground. The hopper can be emptied without the operator leaving the tractor.

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Perma-Green, a lawn and spray coloration product, is now available from International Research Union.

Unlike constant color dye-type plant coloration products, Perma-Green is a non-toxic pigment dye that is actually absorbed by the grass, shrubs or trees it can be sprayed on. It coats plant surfaces with a spring-action binder which limits water transpiration but allows the normal CO_2 (gaseous) metabolism. It will not harm the plant, no matter how lightly or heavily it is applied.

Perma-Green can be matched to any plant color intensity or shade by altering its dilution level in water. It dries in less than half an hour on dry days and will maintain a bright, natural color for up to one year. It is totally safe for humans and animals.

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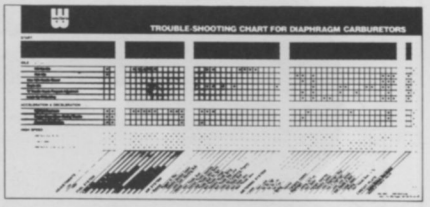
The Sweepster Model HF from Sweepster, Inc., offers a fast, effective way to remove grass clippings and thatch for faster, healthier turf growth. It has a six foot wide brush with gentle yet durable polypropylene bristles. Mounted on an industrialsized tractor, it sweeps a five and one-half foot path and quickly windrows grass clippings. Spring tension allows the HF to follow ground contours and prevents the brush from digging in and scalping the sod.

Other Sweepster Models are available for rear mounting, hydraulic drive and for use with lawn and garden and grounds maintenance tractors.

Circle 704 on free information card



The Walbro Corp. has just completed and started to distribute its new **"Walbro Trouble-Shooting Chart for Diaphragm Carburetors"**. Designed for fast, easy reference, the four-color chart is organized around the four major steps: starting, idling, accelerating and decelerating and running at high speed; in the normal operating sequence which people follow when running chain saws.

The chart lists the engine/carburetor problems that might possible occur at each step and then points the service man to the specific corrective action or actions that should be taken to solve any particular problem.

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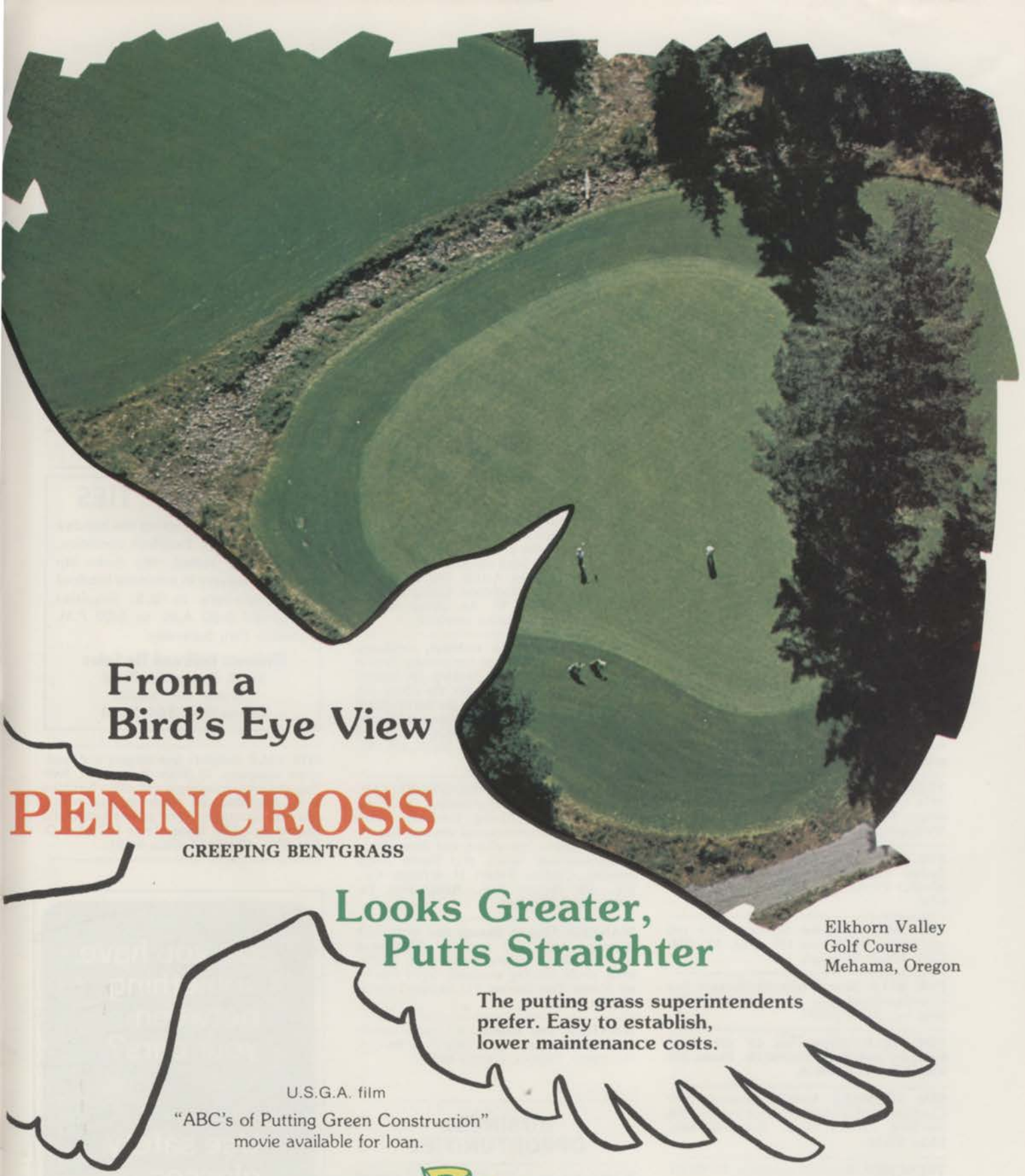

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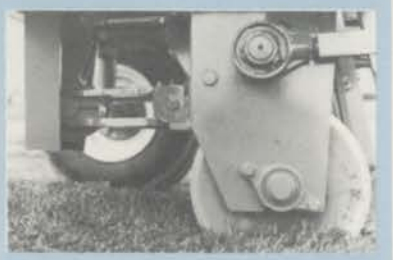
PRINCETON
MANUFACTURING COMPANY
Dealer/distributor inquiries invited.

The BEST is now...EVEN BETTER

Princeton's "Self-Propelled" Harvester, always the leader in output, reliability and ease of operation among similar sized harvesters ...is now EVEN BETTER.

NEW...more compact design with shorter wheel base provides improved handling with a tighter turning radius.



NEW...higher speed cutter head provides minimum vibration, maximum ground control and excellent cutting under both wet and dry conditions.

NEW...dual rear wheel configuration provides better flotation, wider weight displacement in the field and easier wheel and tire maintenance. **PLUS**...by removing the outside rear tire and lifting the specially hinged fender extension the new "Self-Propelled" meets the 8-foot highway hauling width requirements.

NEW...single level stacker platform and newly designed safety rails provide greater stacker comfort and safety.

All this and the
Princeton Promise, too.

Princeton promises that each and every sod harvester that it manufactures is constructed with the utmost care by quality craftsmen, from only the finest available materials. If any Princeton harvester should fail to operate under normal field operating conditions due to faulty workmanship or materials for a period of 90 harvesting days, Princeton will repair or replace. Every Princeton harvester is guaranteed to work properly...on your farm...under your field conditions ...that's the Princeton Promise.

GOODALL

The Goodall Fillies

Introducing the 36 inch cut Goodall Rear Discharge mower. A new design deck allows close trimming on both sides, helps prevent windrows and gives you a clean manicured cut (not that just-cut look). The new variable speed drive gives a wider range of ground speeds. The 3 gallon fuel tank and Hi-Way front caster wheels are standard equipment. This new mower is designed for fine lawns and rough areas. The finger tip control gives the same easy handling and hillside stability and maneuverability as the other Goodall Self-Propelled models. Also available is a new 52 inch rear discharge mower.

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HI-RANGER®

PRODUCTIVE

Proven by owners for line clearing efficiency, and preferred by operators for precise tower control and bucket positioning. HI-RANGERs are No. 1 in utility and contractor preference for insulated aerial man-lifts. Patented HI-RANGER "3D" one-hand control, hydraulic tool line options, chip boxes, and other features may benefit your operations. Write for "4F-5F CATALOG".

HI-RANGER Aerial Towers meet the "American National Standard for Vehicle-Mounted Elevating and Rotating Work Platforms ANSI A92.2-1969," as required by the Williams-Steiger Occupational Safety and Health Act of 1970; Part 1910, Occupational Safety and Health Standards; Section 1910.67; Part 1926, Safety and Health Regulations for Construction; Sections 1926.451 (f), 1926.556, 1926.952 (b), and 1926.955 (e), as applicable.

SINCE 1950
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Having genuine Jacobsen parts in stock makes sense.

Having 3,200 different types of parts makes news.

The average Jacobsen distributor carries about 3,200 different kinds of genuine Jacobsen replacement parts in stock at all times.

That's one heck of a lot of parts. But when a piece of equipment goes down, you want it back in action fast. And with genuine parts because they're made to fit and work perfectly. So a big selection is important.

If you do a lot of your own equipment maintenance and repair, this is just one reason to go with Jacobsen. Here's another. Your Jacobsen distributor can even help you set up your own inventory of most likely used parts. Which can speed up repairs even more.

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It isn't hard to find a good argument for going with Jacobsen. There are 3,200 of them in the parts department alone.

Take a look at leadership.

Jacobsen Manufacturing Company, Racine, Wisconsin 53403

JACOBSEN®

An Allegheny Ludlum Industries Company

"Tough K.C. Chiefs need tough grass! That's why I picked baron KENTUCKY BLUEGRASS.

George Toma, Director of Field and Landscaping Operations, Kansas City Chiefs and Royals, and consultant for all Super Bowl games.

"I need a grass that will withstand the wear and tear of forty big football players on it five days a week from August to December. With the toughness of Baron there are darn few worn out spots."

George Toma explains to Peter Loft:

"I overseed this practice field with 50 lbs. of Baron as early as February and the field is ready in April. We'll have good grass all the way through the season."

"With the field in use so much of the time, I need a grass that doesn't need much care. In the 3 years this field has been in, I've never used a fungicide, insecticide or herbicide. That's a plus for me. I can only water maybe once a week and you can see how green this field is."

"We fertilize well around Thanksgiving. With the lower fertilization requirements of Baron, we don't have to worry about tender grass. Baron stays tough."

"We mow whenever the grass needs it. That ma be once, twice or even three times a week. We only remove ¼ of the growth and usually cu it to ¾" up until June 1. After that we keep it at 2".'

"The players love this field. They even replace their own divots! And I think psychologically they practice better when they see a beautiful field like this."

LOFTS

Lofts Pedigreed Seed, Inc.

Bound Bro[illegible]8805 / (201) 356-8700

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